

6. The touch sensitive device of claim 4 wherein each sense circuit is directly connected to two touch sensitive electrodes.

7. The touch sensitive device of claim 1 wherein the touch sensitive electrodes are arranged in a linear array.

8. The touch sensitive device of claim 7 wherein the dispersal distance is approximately one-third the length of the linear array.

9. A method of tracking an object used in conjunction a touch sensitive device, wherein the touch sensitive device comprises a plurality of electrodes and a plurality of sense circuits, wherein at least one of the sense circuits is directly connected to more than one electrode, the method comprising:

scanning the plurality of sense circuits to collect a signal value corresponding to each of the plurality of sense circuits;

identifying a sense circuit having a maximum signal value;

identifying an electrode having a maximum signal value, the electrode corresponding to the sense circuit having a maximum signal value; and

computing a centroid of the object being tracked with reference to the electrode having the maximum signal value and adjacent electrodes.

10. The method of claim 9 wherein sensor and electrode mappings required for identifying a sense circuit having a maximum signal value and identifying an electrode having a maximum signal value are stored in look up tables.

11. The method of claim 9 wherein identifying an electrode having a maximum signal value comprises:

picking out each electrode associated with the sense circuit having a maximum signal value;

finding each electrode adjacent the electrodes associated with the sense circuit having a maximum signal value;

comparing signal values associated with the adjacent electrodes; and

identifying the electrode having a maximum signal by selecting the electrode having adjacent electrodes with the highest signal value.

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